

## 3D Cell Culture Based on Marine Resources

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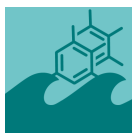
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### Message from the Guest Editor

Three-dimensional (3D) cell culture leads to more predictive models for drug discovery and tissue regeneration. An ideal 3D culture model has not yet been defined due to the loss of extracellular matrix-like scaffolds, although various 3D cell culture model systems require such scaffolds for 3D cell growth. Marine origin polymers have been used as scaffolds for 3D cell culture and will be developed as biomaterials for bio-ink in bioprinting. Thus, many polymers such as alginates, carrageenans, fucoidans, and chitosans from marine resources, including fish, algae, crustaceans, bacteria, cyanobacteria, actinobacteria, and fungi, are considered to be promising biomaterials for 3D cell and tissue culture. In addition, the biological assays of bio-active materials from marine resources using 3D culture rather than two-dimensional (2D) culture have been expanded. This Special Issue aims to provide an overview of the current research in 3D culture systems employing marine natural products as biomaterials. As Guest Editor of this Special Issue, I cordially invite contributions in the form of original research articles or reviews on the subject of this advancing research field.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

During the past few decades there has been an ever increasing number of novel compounds discovered in the marine environment. This is exemplified by the robust preclinical and clinical pipeline that currently exists for marine natural products. *Marine Drugs* is inviting contributions on new advances in marine biotechnology, pharmacology, chemical ecology, synthetic biology, and genomics approaches related to the discovery of therapeutically relevant marine natural products. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

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